

LOBIN, N.V., kand. sel'skokhozyaystvennykh nauk

Use of by-products of the cotton industry as poultry feed.
Ptitsaevodstvo 9 no.7:26-27 Jl '59. (MIRA 12:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsaevodstva.
(Poultry--Feeding and feeds) (Cottonseed meal as feed)

ARSENSHVILI, A.Yu.; BOGDANOV, M.N.; GORIZONTOVA, Ye.A.; YERSHOVA, Ye.I.; YELENBAUM, N.I.; IOFE, N.Sh.; KARAVAYEV, A.M.; KOLOBOV, G.M.; LOBIN, N.V., kand. sel'khoz. nauk; KUSHNER, Kh.F., doktor bilog. nauk; MISHIN, P.N.; PATRIK, I.A., kand. sel'khoz. nauk; KEDIKH, V.K., kand. sel'khoz. nauk; SEMTNEV, S.I., akademik; SAMOLETOV, A.I.; FILASOV, V.V.; SHKUDOVA, R.I.; SOKOLOVA, G.S., red.; ROMANOVICH, Ye.F., red.; LEVINA, L.G., tekhn. red.

[Chickens for meat] TSypliata na miaso. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 197 p. (MIRA 15:1)
(Poultry)

BABIY, L.T., kand.- sel'khoz. nauk; STOLLYAR, T.A., kand. sel'khoz. nauk; ASANOV, P.M., assistent; SELYANSKIY, V.M., kand. sel'-khoz. nauk; LOBIN, M.V., kand. sel'khoz. nauk; KOVIN'KO, D.A., kand. biol. nauk; MASLIYEVA, O.I., kand. sel'khoz. nauk; PETROV, V.M., kand. veter. nauk; ANAN'YEV, P.K., kand. veter. nauk; PENIONZHKEVICH, E.E., doktor biol. nauk, prof.; SERGEYEVA, A.M., kand. sel'khoz. nauk; BALANINA, O.V., kand. sel'khoz. nauk; GRIGOR'YEV, G.K., st. nauchnyy sotr.; KRIKUN, A.A., Geroy Sotsialisticheskogo Truda, kand. sel'khoz. nauk; YAROVOY, P.F., kand. veter. nauk; BELOKOBYLENKO, V.T., nauchnyy sotr.; GROMOV, A.M., kand. sel'khoz. nauk; MOSIYASH, S., red.; NAGIBIN, P., tekhn. red.

[Handbook for poultrymen] Kniga ptitsevoda. Alma-Ata, Kaz-sel'khozgiz, 1962. 354 p. (MIRA 16:5)
(Kazakhstan--Poultry)

LOBINA, N. K.

BARON, N.M.; KVYAT, E.I.; PODGORNAYA, Ye.A.; PONOMARENVA, A.M.; RAVDEL', A.A.;
TIMOFEEVA, Z.N.; MISHCHENKO, K.P., redaktor; LOBINA, N.K., redaktor;
LEVIN, S.S., tekhnicheskiy redaktor; YOMKINA, T.A., tekhnicheskiy
redaktor

[Concise manual of physical and chemical measures] Kratkii spravochnik
fiziko-khimicheskikh velichin. Pod red. K.P.Mishchenko i A.A.Ravdelia.
Izd. 2-oe, dop. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry,
1957. 111 p. (MIRA 10:9)

(Weights and measures--Tables, etc.)

2.6.6.11.1.1.1.

BARON, N.M.; VOLOVA, Ye.D.; YNGOROV, I.M.; KVYAT, E.I.; MISHCHENKO, K.P.,
prof.; PONOMAREVA, A.M.; RAVDEL', A.A., dots.; SEMENOV, G.I.;
LOBINA, N.K., red.; ERLIKH, Ye.Ya., tekhn.red.

[Practical work in physical chemistry] Prakticheskie raboty po
fizicheskoi khimii. Pod red. K.P.Mishchenko i A.A.Ravdelia.
Leningrad, Gos.nauchno-tekhnik.izd-vo khim.lit-ry, 1957. 263 p.
(MIRA 11:2)

(Chemistry, Physical and theoretical--Laboratory manuals)

4-63 - N A, F+FR

BARON, N.M.; KVIAT, E.I.; PODGORNAYA, Ye.A.; PONOMAREVA, A.M.; RAVDEL',
A.A.; TIMOFEEVA, Z.N. Prinimal uchastiye VASIL'YEV, I.A..
MISHCHENKO, K.P., red.; PETRZHAK, K.A., red.; LOBINA, N.K., red.;
LEVIN, S.S., tekhn.red.; FOMKINA, T.A., tekhn.red.

[Short reference handbook of physicochemical constants] Kratkiy
spравочник fiziko-khimicheskikh velichin. Pod red. K.P.Mishchenko i A.A.Ravdelia. Izd.3., dop. Leningrad, Gos.nauchno-tekhn.
izd-vo khim.lit-ry, 1959. 122 p. (MIRA 13:2)
(Chemistry, Physical and theoretical--Charts, diagrams, etc.)

DOLGOV, Boris Nikolayevich; ZONIS, S.A., red.; LOBINA, N.K., red.;
ERLIKH, Ye.Ya., tekhn.red.

[Catalysis in organic chemistry] Kataliz v organicheskoi
khimii. Izd.2., perer. i dop. Leningrad, Gos.nauchno-tekhn.
izd-vo khim.lit-ry, 1959. 807 p. (MIRA 12:7)
(Catalysis) (Chemistry, Organic)

LOBIN'SH, S.[Lobins, S.]; LUSIS, L., otv. red.

[Fashion magazine, 1962]Oformlen Biuro torgovoi reklamy ot-
deleniya Vsesoiuznoi torgovoi palaty Latviiskoi SSR. Mo-
skva, Reklamno-izd. fabrika upr. gor. oformleniia i reklamy
Mosgorispolkoma, 1962. 48 p. (MIRA 15:10)
(Dressmaking--Periodicals)

LOBITSKIY, Vadim Grigor'yevich; TSAR'KOV, Vasiliy Andreyevich;
ZIMIN, N., red.; IVANOV, N., tekhn. red.

[Introducing advanced welding methods] Vnedriacom peredovye
metody sverki. Kaluga, Kaluzhskoe knizhnoe izd-vo, 1962. 70 p.
(MIRA 15:10)
(Welding)

F-4 JD/HM

ACCESSION NR: AT5017526

UR/3155/64/000/001/0008/0015

25

B71

AUTHOR: Sutyrin, G.V. (Docent, Cand. of technical sciences); Lobitskiy, V.G. (Engineer)

TITLE: Unilateral spot welding of large equipment components

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. Kaluzhskiy fakul'tet.
Mashinostroyeniye, no. 1, 1964, 8-15

TOPIC TAGS: unilateral spot welding, large equipment element, cumbrous machine part, welding setup, welding gun, spot gun, low alloy steel, low carbon steel, high alloy steel, copper busbar, welding transformer

ABSTRACT: To facilitate the welding of cumbrous and large machine parts, the authors employed the principle of unilateral spot welding. Fig. 1 shows the diagram of the setup for this process. The welding current from secondary winding 10 of transformer 5 is admitted to weldment 4 by copper cable 3 and to welding gun 1 by cable 2. The pressure between the electrode and the weldment is created by the welder by pressing the handle of gun 1 and thus compressing

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ACCESSION NR: AT5017526

the spring inside the gun's housing and causing the contacts 4 of the switch to close. Thereupon, contactor 6 energizes transformer 5 and timing relay 7, thus automatically causing the welding process to commence. For greater flexibility and lighter weight, current-conducting cable 2 consists of copper cores with an overall cross section of approx. 40 mm² sheathed in a rubber hose through which cooling water is passed. Numerous experiments have shown that the welding gun (Fig. 2) can be successfully used to weld large work parts of low-carbon, low-alloy and high-alloy steels in cases where, for one reason or another, the conventional machines for spot welding in any spatial position cannot be employed. Unilateral single-spot welding with the aid of the spot gun can find broad application in the welding of sheets up to 2 mm thick to elements of considerable thickness (as much as 600 mm and more), which cannot be accomplished with the aid of the standard welding machines and pinch guns. This technique can produce good results if the following requirements are observed: the length of the hose connecting the welding gun to the power source may not exceed 3 m; the power supply source must be of a capacity of at least 100 kva; and the welding of large work parts must be performed on a copper-busbar backing. The copper-busbar backing is needed in order to prevent the considerable power loss.

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ACCESSION NR: AT5017526

and the attendant underwelding losses that may arise when the weldment is of large dimensions and the distance from the current source is considerable. The quality of the weldments thus obtained is sufficiently high. Orig. art. has: 2 figures, 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 02

SUB CODE: IE, MM

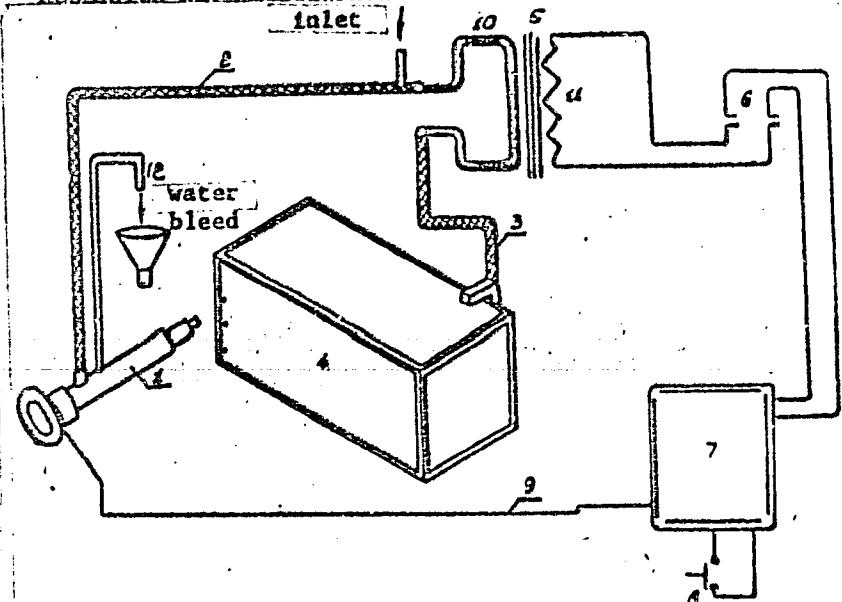
NO REF Sov: 000

OTHER: 000

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ACCESSION NR: AT5017526



ENCLOSURE: 31 O

Fig. 1. Diagram of setup for unilateral single-spot welding of cumbersome parts:

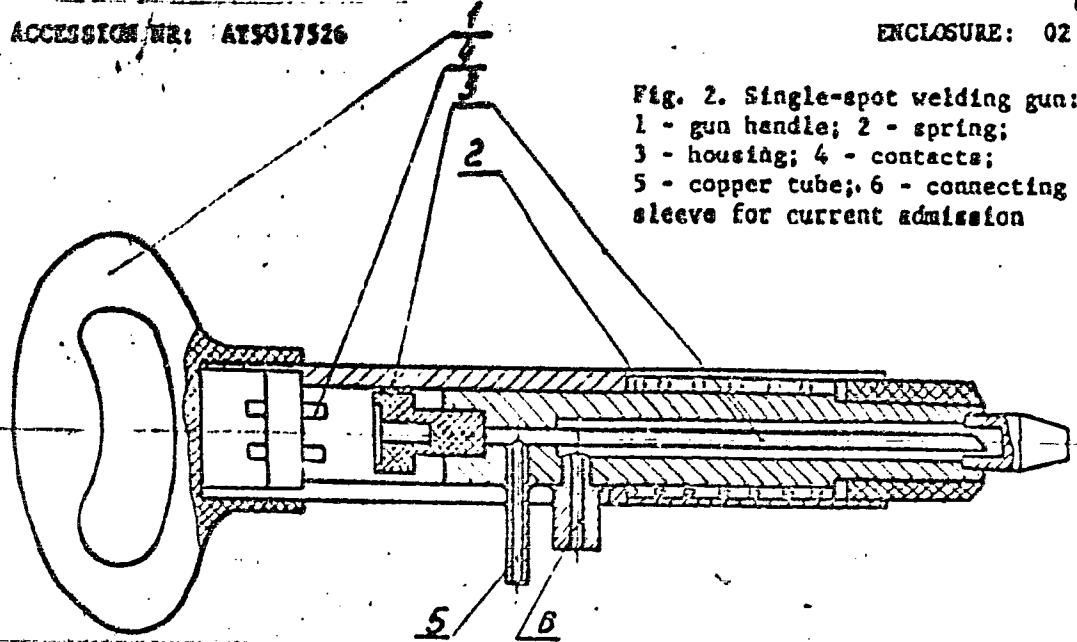
- 1 - portable gun;
- 2 - water-cooled cable;
- 3 - noncooled cable;
- 4 - weldment;
- 5 - welding transformer;
- 6 - contactor;
- 7 - timing relay;
- 8 - switch; 9 - secondary winding of transformer;
- 10 - primary winding of transformer;
- 11 - water-bleed hose

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L 62541-65

ACCESSION NR: AY5017526

ENCLOSURE: 02



Card

5/5

PEN'KOV, A.I.; LOBKAREV, M.V.; SHNEYDER, V.P.

Effect of calcium muds on the stability of the well bore.
Burenie no.2:21-24 '65. (MIRA 18:5)

1. Turkmen'skiy filial Vsesoyuznogo neftegazovogo nauchno-
issledovatel'skogo instituta.

LOBKIN, A.

Modernization of BU-75br. drilling rigs. Neftianik 5 no.10:19-20
O '60. (MIRA 13:10)

1. Glavnnyy mekhanik Stavropol'skoy kontory bureniya.
(Oil well drilling rigs)

LOBKIN, A.

Transportation of drilling rigs on heavy-duty trailers. Neftianik
6 no.7:9 Jl '61. (MIRA 14:7)

1. Glavnnyy mekhanik Stavropol'skoy kontory bureniya.
(Oil well drilling rigs--Transportation) (Truck trailers)

LOBKIN, A.

Aeration drilling. Neftianik 7 no.6:10-11 Je '62. (MIRA 15:8)

1. Glavnnyy mekhanik Stavropol'skoy kontory bureniya.
(Caucasus, Northern—Oil well drilling fluids)

LOBKIN, A.K., shofer

Safe driving on sleet-covered roads. Avt.dor. 22 [i.e.23] no.9:
19 S '60. (MIRA 13:9)

1. Minskiy avtobusnyy park.
(Roads--Cold weather conditions)

LOBKIN, A. N.

Machine removal of anticorrosive material from B2-300 diesel engines. Neftianik 1 no.10:32 O '56. (MLRA 9:11)

1. Glavnnyy mekhanik Stavropol'skoy kontory bureniya.
(Corrosion and anticorrosives) (Diesel engines)

LOBKIN, A.N.

Shower baths in drilling stations. Neftianik 2 no. 6:24-25 Je '57.
(MIRA 10:10)

1. Glavnnyy mekhanik Stavropol'skoy kontory bureniya tresta Kavkaz-neftegazrazvedka.

(Shower baths) (Waste heat)

AKOPYAN, N.R., inzh.; LOBKIN, A.N., inzh.

Remote control of high-pressure valves. Bezop. truda v prom. 2
no. 6:34 Je '58. (MIREA 11:?)

(Turbodrills)
(Pneumatic control)

Lobkin, A.N.

92-58-3-5/32

AUTHORS: Akopyan, N.R., Chief Engineer and Lobkin, A.N., Foreman

TITLE: The BU-40 Rig Can be Used to Drill a Well 1,400 Meters Deep (Stankom BU-40 mozhno burit' 1400 metrov)

PERIODICAL: Neftyanik, 1958, Nr 3, pp 6-7 (USSR)

ABSTRACT: The BU-40 semi-mobile rig built by the "Barikada" factory is designed to drill a petroleum or gas well 1,200 meters deep. In practice, however, it has been ascertained that this rig can drill a well 1,400 m deep. The Stravropol' office for deep exploratory drilling of the Kavkazneftegas-razvedka trust succeeded in drilling a 1,401 m deep oil well. The BU-40 rig Nr 349 built in 1953 was used for drilling this well. Four wells 4,800 m deep in total were drilled by the same rig before the operation in question

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The BU-40 Rig Can be Used (Cont.)

92-58-3-5/32

took place. A four-inch drill pipe was sunk to a depth of 1,000 m; at that depth it was replaced by three-inch pipe. To ensure the necessary weight of the latter, it was provided with a 400 m long collar consisting of four four-inch pipes. Before starting the operation, a spare ramsy table of the P-450 type, a swivel and the main clutch of the transmission were brought to the well site. With the exception of the swivel which was replaced, all the other rig parts worked without failure. An alkali solution was used for treatment of the drilling fluid. The drilling was completed in 32.3 days, at the drilling rate of 1273 m per rig/month. Twelve three-zone bits were used during the operation, each one perforating 109 m with an average mechanical speed of 5.3 meter/heure. Ninety-three meters were drilled with the DKR-7 3/4-in. bit at the interval 980-1401 m. This record-making feat of the drilling team headed by the foreman Ya.G. Tikkia indicates the potential hidden in the mechanism of Soviet drilling tools.

ASSOCIATION: Stravropol'skaya kontora bureniya (Stravropol' Drilling Office)

AVAILABLE: Library of Congress

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14(5)

SOV/92-58-9-18/36

AUTHORS: Akopyan, N.R., Chief Engineer, and Lobkin, A.N.,
Chief Mechanic

TITLE: Equipping Pumps with Pressure Hoses (Obvyazka nasosov
burovymi rukavami)

PERIODICAL: Neftyanik, 1958, Nr 9, p 19 (USSR)

ABSTRACT: The author states that the erection of derricks and installation of the drilling equipment is not keeping pace with the rapid development of drilling operations carried out by the Stavropol' deep well drilling office of the Kavkazneftegazrazvedka Trust. As a result drillers fail to fulfill their assignment. The equipping of pumps with pressure hoses and welding operations in general are complicated because welders have to carry out their work at the drilling site under the difficult conditions entailed in exploratory drilling. Sharp hydraulic shocks resulting from an uneven drive of liquid weaken the connection of the compensator with its support and disrupt pressure lines. To

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Equipping Pumps with Pressure Hoses

SOV/9-58-9-18/36

facilitate the work of equipping pumps with pressure hoses the Stavropol' drilling office made the following experiment during the drilling of a 2,000 m deep well. Drillers built a stand supporting one U8-3 pump and placed an 8-in compensator on the pump. They also equipped the U8-3 pump with a hose able to withstand a 150 atm pressure. A schematic drawing shows how the hose is installed. This flexible hose is able to quench the hydraulic shocks when turbo-drilling operations are carried out under a pressure of 90 atm. This method of equipping pumps with pressure hoses allowed the welding to be done in an area specially assigned for this purpose, while the drilling site is used for flange coupling only. The author suggests the adoption and use of the method introduced by Stavropol' drillers whenever possible. Hoses withstanding a 200 - 300 atm pressure must be put at the disposal of the petroleum industry in the quantity needed. There is 1 schematic drawing.

ASSOCIATION: Kontora glubokogo bureniya tresta Kavkazneftegaz-razvedka (Deep Drilling Office of the Kavkazneftegazrazvedka Trust)

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AKOPYAN, N.R.; LOBKIN, A.N.

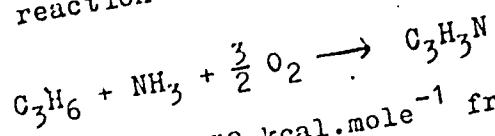
Using drilling hoses in binding pumps. Bezop.truda v prom. 3 no.1:
29-30 Ja '59. (MIRA 12:3)

1. Stavropol'skaya kontora glubokogo bureniya tresta Kavkaznefte-
gazrazvedka. (Oil well pumps)

S/249/62/018/010/003/004
D204/D307

AUTHORS: Dalin, M. A. and Bobkina, V. V.
TITLE: Some laws governing the oxidative ammonolysis of propylene
PERIODICAL: Akademiya nauk Azerbaydzhanskoy SSR. Doklady, v. 18,
no. 10, 1962, 27-29

TEXT: The heat of reaction



has been calculated as $-123.332 \text{ kcal.mole}^{-1}$ from literature data,
and the standard change of entropy as $17.957 \text{ cal-mole}^{-1} \text{ deg}^{-1}$. The
free energies varied from $-118.262 \text{ kcal-mole}^{-1}$ at 298°K to -101.232
at 1298°K , the corresponding values of $\log K_p$ (where K_p is the

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Some laws governing ...

S/249/62/018/010/003/004
D204/D307

equilibrium constant) being 86.0 and 17.0. As was confirmed experimentally, the reaction may proceed practically to completion, even at 1000°C. The degree of conversion of propylene, α , is given as $1-e^{-k\tau}$, where τ is time and k is a velocity constant, which obeys Arrhenius' equation. This expression was confirmed experimentally between 430 and 470°C. There are 2 figures and 3 tables.

SUBMITTED: October 10, 1962

Card 2/2

DALIN, M.A., akademik; LOBKINA, V.V.; ABAYEV, G.N.; SEREBRYAKOV, B.R.;
PLAKSUNOVA, S.L.

Production of acrylonitrile based on propylene and ammonia.
Dokl.AN SSSR 145 no.5:1058-1060 '62. (MIRA 15:8)

1. AN Azerbaydzhanskoy SSR (for Dalin).
(Acrylonitrile) (Propene) (Ammonia)

"APPROVED FOR RELEASE: 06/20/2000

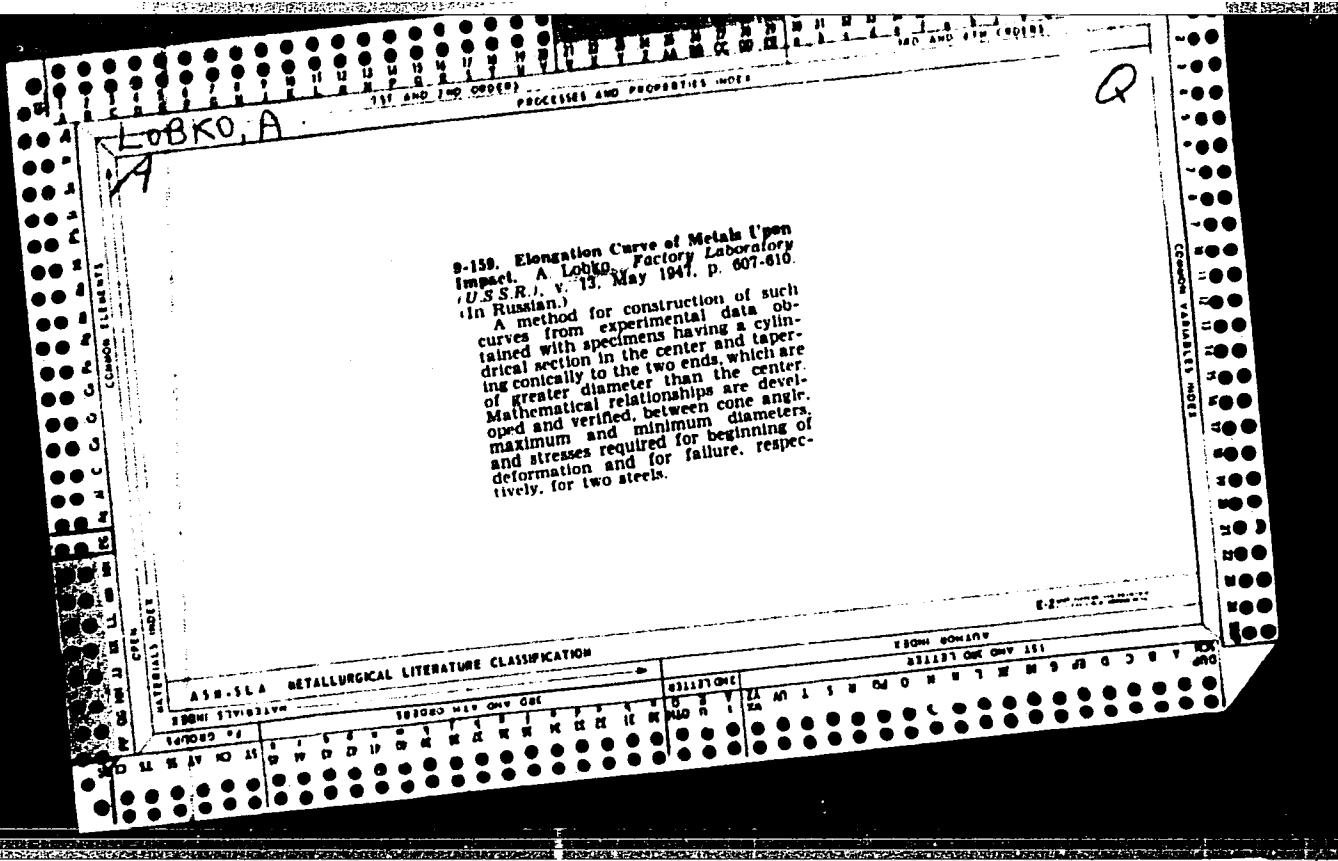
CIA-RDP86-00513R000930320018-5

DALIN, M.A.; SEREBRIYAKOV, B.R.; LOBKINA, V.V.; GAMIDOVA, E.B.

Mechanism underlying the reactions taking place in the process of
oxidizing ammonolysis of propylene. Azerb.khim.zhur. no.4:99-102
'63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5"



LOBKO, A.

Soviet gas-turbine locomotives appear on the rails. Znan. ta
pratsia no.7:13 J1 '60.
(Gas-turbine locomotives)

LOBKO, A.D.

L-2 safety vibrator. Biul.nauch.-tekhn.inform.VIMS no.1:78-79 '60.
(MIRA 15:5)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Boring machinery—Safety measures)

LOBKO, A.F. (Odessa)

Karyometric studies on liver punctate in diseases of the organs
of the digestive tract. Arkh. pat. 24 no.9:33-39 '62.
(MIRA 17:4)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. Ya.M. Voloshin)
pediatriceskogo i stomatologicheskogo fakul'tetov Odesskogo gosu-
darstvennogo meditsinskogo instituta imeni N.I. Pirogova.

TOBEK, A.F.

Diagnostic role of posteroanterior tomography in diagnosis
of abdominal organs. Sov. med. radiol. 1970, No. 10. (MIRAN-10)

i. Kafedra fakultetskoy khirurgii (doc. - prof. Ya.M.Voloshin)
pediatricheskogo i stomatologicheskogo fakultetov Gipniko
meditsinskogo Instituta.

LUBKO, A.F., kand.med.nauk; USPENSKIY, Ye.A., prof.

Cytohistological analysis of liver punctata and its clinical significance. Vrach. delo no.12:137-138 D '60. (MIRA 14:1)

1. Kafedra fakul'tetskoy khirurgii pediatriceskogo i sanitarno-gigiyenicheskogo fakultetov (zav. - prof. Ya.M. Voloshin) i patologicheskoy anatomii (zav. - prof. Ye.A. Uspenskiy) Odesskogo meditsinskogo instituta.
(LIVER) (PUNCTURES (MEDICINE))

MALISH, V. [Malysh, V.]; BALAKIREV, O. [Balakiriev, O.]; KOBELETSKIY, Ya.
[Kobelets'kiy, Ya.], red.; LOBKO, A., kand.tekhn.nauk

News of soviet science and technology. Znan. ta pratsia no. 12:16
D '60. (MIRA 14:4)

1. Redaktor DerzhLitvidavu URSR (for Kobeletskiy).
(Technological innovations)

S/526/62/000/024/006/013
D234/D308

AUTHOR: Lobko, A.O.

TITLE: Dynamics of a free-piston gas generator

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Instytut teploenergetyky. Zbirnyk prats'. no. 24, 1962. Teploobmin ta hidrodynamika, 68-76

TEXT: The author gives a method of calculating the weight of the freely moving parts. G is determined from the formula for the duration of a cycle (derived from the equation of motion $v = dS/dt$) by replacing four integrals occurring in it by finite sums. An approximate method is based on considering the velocity curve as a semiellipse. Then $G = 2.35 \times 10^3 N_e/n^2 S^2$. There are 8 figures and 1 table.

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24.6714 (3423)

24.6740

37456
S/057/62/032/005/003/022
B102/B104

AUTHORS: Nazarov, N. I., Yermakov, A. I., Lobko, A. S., Bondarev,
V. A., Tolok, V. T., and Sinel'nikov, K. D.

TITLE: Examination of ionic cyclotron waves

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 5, 1962, 536-540

TEXT: The authors continued previous experiments (ZhTF, 31, 254, 1961) on the excitation and propagation of ionic cyclotron waves. In an apparatus schematically shown in Fig. 1, a powerful h-f discharge in hydrogen and deuterium was studied in a range near ionic cyclotron resonance, and the conditions of forced resonance excitation of ionic cyclotron waves and of their propagation along the magnetic field were determined. Polarization and attenuation of these waves was also measured. The discharge took place in a tube of molybdenum glass (2 m long, 60 mm thick) arranged in a solenoid which created a quasi-constant magnetic field. The arrangement was such that two field regions were present; one for resonance excitation and another for the damping of the ionic cyclotron waves. The overall length of the coil was

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S/057/62/032/005/003/022
B102/B104

Examination of ionic cyclotron waves

1.5 m. The field was created by discharging a capacitor bank with a total capacity of $2.25 \cdot 10^{-2}$ f, which could be charged up to 5 kv. The field reached 20-25 kilogauss within 5 msec. The exciting electromagnetic field had a wavelength of 16 cm. The resonance circuit had a quality factor of 400 with an 80-kw generator (3-30 Mc/sec), and the maximum voltage in the circuit was 30 kv. Hydrogen of 10^{-2} - 10^{-4} mm Hg was blown through the evacuated (1.10^{-6} mm Hg) discharge tube, and after a long-time aging of the system with h-f discharges, voltage and probe-signal oscillograms were recorded. At the moment of resonance load, the generated wave starts traveling along the constant magnetic field. Its magnetic-field distribution and phase variation along the field were measured (Figs. 5, 6). The wave was found to be circularly polarized; the polarization vector rotated in the same sense as did the free ion in the magnetic field. The damping process was studied with waves traveling in a region of magnetic fields equal to that of the cyclotron waves. Damping was found to set in only at a certain distance with various field geometries, which cannot be attributed to collision damping only. At $H = H_{cyclotron}$, cyclotron damping becomes more effective. There are

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Examination of ionic cyclotron waves

S/057/62/032/005/003/022
B102/B104

8 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN USSR (Physicotechnical
Institute AS UkrSSR) Khar'kov

SUBMITTED: June 3, 1961

Card 3/5

NAZAROV, N.I.; YERMAKOV, A.I.; LOBKO, A.S.; BONDAREV, V.A.; TOLOK, V.T.;
SINEL'NIKOV, K.D.

Investigation of ion cyclotron waves. Zhur.tekh.fiz. 32 no.5:
536-540 My '62. (MIRA 15:7)

1. Fiziko-tekhnicheskiy institut AN USSR, Khar'kov.
(Plasma (Ionized gases))

LOBKO, A.Ye., kandidat tekhnicheskikh nauk

On equipping locomotives with Diesel engines. Trudy Inst. tepl. AN
URSR no.8:190-200 '52.
(Diesel locomotives)

(MLRA 8:7)

LOBKO, A.Ye.

Cascade-asynchronous coupling for mobile power generators. Trudy
Inst.tepl. AN URSR no.9:35-41 '53. (MIRA 8:6)
(Electric generators)

LOBKO, A. Ye., kandidat tekhnicheskikh nauk (Kiev)

Gas turbine locomotive. Nauka i zhizn' 22 no.10:49 O '55.(MLRA 9:1)
(Gas turbine locomotives)

LOBKO, A.Ye.; MAKOVETSKIY, P.S.

Displacement of brown coal in drum dryers during the drying process.
Trudy Inst. tepl. AN URSR no.15:65-71 '58. (MIRA 11:10)
(Lignite--Drying)

S/262/62/000/016/009/015

I011/I211

AUTHOR: *Ye.* Lobko, A.

TITLE: A method for an approximate calculation of the regulation of a gas turbine system with a free-piston gas generator

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustavovki, no. 16, 1962, 71 str., abstract 42.16.489. (Zb. prats'. Inst. teploenerg. AN URSR, no. 18, 1960, 46 str., 11 kta inian; resume in Russian)

[Abstracter's note: Complete translation.]

Card 1/1

LOBKO, A.Ye. [Lobko, A.O.]

Dynamics of a free-piston gas generator. Zbir. prats' Inst. tepl. AH
UHSR no.24:68-76 '62'. (MIRA 16:3)
(Gas dynamics)

LobKU, 1 S

BYREYEV, P.A., prof.; VARSHAMOV, L.A., prof.; VOLYNSKIY, B.G., dotsent; Gerasimov, N.V., dotsent; GUREVICH, L.I., dotsent; ZHELYABOVSKIY, G.M., prof.; KARTASHOV, P.P., prof.; KOCHETOV, K.P., dotsent; KRUGLOV, A.N., prof.; KUTANIN, M.P., prof.; LARINA, V.S., dotsent; LOBKO, I.S., doktor [deceased]; LUKOVA, A.I., prof.; MAKHLIN, Ye.Yu., prof.; NAUMOV, A.I., kand.med.nauk; POPOV'YAN, I.M., prof.; SOLUN, N.S., kand.med.nauk; TARABUKHIN, M.M., dotsent; TRET'YAKOV, K.N., prof.; TRISHINA, A.A., kand.med.nauk; UL'YANOVA, A.V., dotsent; FAYN, A.E., kand.med.nauk; FAKTOROVICH, A.M., dotsent; FRANKFURT, A.I., prof.; FISHER, L.I., dotsent; CHASOVNIKOVA, Ye.P., kand.med. nauk; SHAMARIN, P.I., prof.; SHAPIRO, M.Ya., dotsent; SHVARTS, I.S., prof.; SHUSTERMAN, I.B., dotsent; FOY, A.M., prof.; FREYDMAN, S.L., kand.med.nauk; NIKITIN, B.A., dotsent, red.; AFANAS'YEV, I.A., red.; LUKASHEVICH, V., tekhn.red.

[Concise medical reference book] Kratkiy terapevticheskii spravochnik. Izd.3., ispr. i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 919 p. (MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Tret'yakov).
(MEDICINE--HANDBOOKS, MANUALS, ETC.)

PALISHKIN, D.A.; IVANOV, V.I.; M'KARENKO, L.N.; GALAEV, K.K.;
TROEZHIN, S.I.; KITSYUK, V.I.; STEPANOV, A.D.; SAZONOVA,
N.I.; KUZNETSOVA, M.P.; PISARENKO, G.M.; LOBKOV, M., red.

[Mechanization in animal husbandry] Mekhanizatsiya v zhivotnovodstve. Stavropol', Stavropol'skoe knizhnoe izdatel'stvo, 1963. 287 p.

(MIRA 17:8)

ZOBMO, 122 A.
GANZBURG, S.Ye.; BRAININA, R.A.; BOBAKOVA, M.I.; SAMBORSKAYA, Z.I.
~~IRTLACH-MUMOVA, B.I.; LOBKOV, M.A.~~

Epidemiological study on possible shortening of the isolation period
in epidemic parotitis. Zhur. mikrobiol. epid. i immun. 28
no.2:38-39 F '57 (MLRA 10:4)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.
(MUMPS epidemiol.
shortening of isolation period)

BITKINA, L.N.; FEDOSYUK, R.Ya.; LOBKOV, M.A.; MIKERINA, N.Ya.; GLUKHOVTSEVA,
Z.N.; RUMANOVA, R.G.; VIL'SHANSKAYA, F.L.; MATVEYEVA, V.N.;
YAMPOL'SKAYA, V.A.; VARSHAVSKIY, E.I.

Outbreak of salmonellosis. Zhur. mikrobiol. epid. i immun. 31 no.2:
99-100 D '60. (MIRA 14:6)
(SALMONELLA)

VLADIMIROV, O.A., inzh.; LOBKO, N.I., inzh.; SHANOV, A.I., inzh.

Small-size hourmeters for tractor engines. Trakt. i sel'khozmaš.
no.1:36-37 Ja '65. (MLRA 18:3)

1. Vladimirsksiy zavod "Avtopribor" (for Vladimirov). 2. Vladimirsksiy
traktornyy zavod (for Lobko, Shananov).

LOBKO, P.; PETROVA, R.

Coordinated conference on morphology. Zdrav.Bel. 7 no.11:67-68
N '61. (MIRA 15:11)
(MORPHOLOGY--CONGRESSES)

BELKIN, Yu.; KALINKIN, A.; KOZHATKIN, G.; LOSKO, F.; KRYUKOV, V.,
red.

[Device for the dynamometry of mounted machines; results
of comparative tests] Pribory dlia dinamometrirovaniia
navesnykh mashin; rezul'taty srovnitel'nykh ispytanii.
Moskva, Biuro tekhn. informatsii i reklamy, 1964. 103 p.
(MIRA 18:9)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5

LOBKO, P. I.

"Paths of Crossed Sensitive Inervation of the Human Adrenal Glands." Cand
Med Sci, Minsk State Medical Inst, 23 Dec 54. (SB, 8 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5"

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5

LOBKO, P.I.

Paths of decussate afferent innervation in human adrenals.
Vop.morf. perif. nerv. sist. no.3:97-113 '56 (MIRA 11:12)
(ADRENAL GLANDS--INNERVATION)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5"

CZECHOSLOVAKIA / Human and Animal Morphology. Nervous S-2
System. Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64790.

Author : Lobko, P. I.

Inst : Not given.

Title : Certain Data on the Structure and Asymmetry of
the Solar Plexus in Man.

Orig Pub: Ceskosl. morfol., 1957, 5, No 4, 353-359.

Abstract: A study of the solar plexus (SP) of 49 human cadavers from 15 - 72 years of age indicated that the structure of the SP is highly variable. A concentrated form of the SP is met with more frequently, in which there is one bundle on each side, whereupon the splanchnic nerves enter the bundles more frequently in the form of an isolated trunk, or, less frequently, dividing into

Card 1/2

USSR/Human and Animal Morphology. Nervous System. Peripheral Nervous System S-3

Abstr Jour: Ref Zhur - Biol., No 19, 1958, 86413

Author : Lobko, P. I.

Inst : Not Given

Title : Structural Characteristics of the Solar Plexus in Man, and Their Clinical Significance

Orig Pub: Zdravookhr. Belorussii, 1958, No. 1, 36-37

Abstract: It was demonstrated, on 49 cadavers, that in 27 cases all the splanchnic nerves (SN) entered into the ganglia of the solar plexus of the corresponding side; in the remaining cases only a part of the branches of the SN entered into the homolateral ganglia of the solar plexus, and the remaining fibers, situated over the posterior surface of the semilunar ganglia (SG), passing through transverse connections,

Card 1/2

USSR/Human and Animal Morphology. Nervous System. Peri- S-3
pheral Nervous System

Abstr Jour: Ref Zhur - Biol., No 19, 1958, 88413

Abstract: reached the opposite side. It was demonstrated histologically in 6 cadavers that when the SI entered into the SG, the afferent fibres traversed the substantia gelatinosa of SG, and passing through transverse connections reached the SG of the opposite side, and from there were distributed to the internal organs. The existence of cross connections between symmetrical plexuses of the abdominal cavity and the passage of afferent fibers from one side to the other, was confirmed experimentally (in 10 cats).

Card 2/2

40

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5

LOBKO, P.I.; GOLUB, D.M.

Transverse paths of the afferent innervation of the adrenal glands.
Vop.morf.perif.nerv.sist. no.4:80-90 '58. (MIRA 13:5)
(ADRENAL GLANDS--INNERVATION)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5"

LOBKO, P.I.

Structure of the nerves of the adrenal glands in man. Vop. morf.
perif. nerv. sist. no.5:111-118 '60. (MIRA 14:3)
(ADRENAL GLANDS--INNERVATION)

LOBKO, P.

Conference of morphologists and endocrinologists. Zdrav. Belor.
6 no. 10:74-75 O '60. (MIRA 13:10)
(MORPHOLOGY) (ENDOCRINOLOGY)

LORKO, P.I.; KOROVIKOV, A.T.

Method for photography of large histological objects..
Folia morphol 21 no.1:121-127 '62

1. Kafedra anatomii cheloveka Minskogo Meditsinskogo Instituta.
zav. : akademik AN BSSR, prof. D.M. Golub.

LOBKO, P.I. [Labko, P.I.], kand.med.nauk

Participation of splanchnic phrenic and vagus nerves in the formation of the solar plexus. Vestsi AN BSSR.Ser.biial.nav.
no.3:76-83 '62. (MIRA 15:12)
(SOLAR PLEXUS)

LOBKO, P.I.

Structure of the large splanchnic nerves and *celiac* ganglia of
the solar plexus in white rats. Vop. morf. perif. nerv.sist.
no.6:80-87'63. (MIRA 16:10)
(SOLAR PLEXUS)

LOBKO, P.I.

Intercrossed nerve connections between large splanchnic and
vagal nerves of the solar plexus ganglia in the Monkey
Macacus rhesus. *Arkh. anat., gist. i embr.* 49 no.9:27-33 S
'65. (MIRA 18:12)

1. Kafedra anatomii cheloveka (zav. - dyestvitel'nyy chlen
AN BSSR prof. D.M.Golub) Minskogo meditsinskogo instituta.
Submitted September 21, 1964.

LOBKO, P.I.

Materials on the characteristics of the structure of the nervous
crossconnections in the region of the solar plexus in white rats.
Biul. eksp. biol. i med. 59 no.6:105-110 Je '65.

(MIRA 18:6)

1. Kafedra anatomii cheloveka (zav. - deyatel'nyy chlen AN
BSSR prof. D.M. Golub) Minskogo meditsinskogo instituta.

LOBKO, S.I.; FEDOROV, F.I.

Spin 1/2 - 3/2 particle in a homogeneous magnetic field.
Dokl.AN BSSR 4 no. 5;194-198 My '60. (MIRA 13:10)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina.
(Particles (Nuclear physics))

LOBKO, S.I.

Scattering of particles with spin 1/2 and 3/2 in a coulomb field.
Dokl.AN BSSR 4 no.9:376-379 S '60. (MIRA 13:9)

1. Belorusskiy gosudarstvenny universitet im. V.I. Lenina. Predst.
akad. AN BSSR B.I. Stepanovym.
(Particles (Nuclear physics)--Scattering)

LORKO, S.I. [Labko, S.I.]

A particle with spin 1/2--3/2 in a constant uniform electric
field. Vestsi AN BSSR. Ser. fiz.-tekhn. nav. no.3:53-62 '64.
(MIRA 18:2)

LOBKO, S.I. [Labko, S.I.]

Reflection and passage of a particle with $1/2 - 3/2$ spin through
the potential barrier. Vestsi AN BSSR. Ser. fiz.-tekhn. nav. no.4:
30-39 '64. (MIRA 18:3)

FEDOROV, F.I.; LOBKO, S.I.

Magnetic moment of a particle with variable spin 1/2-3/2.
Dokl. AN BSSR 9 no.3:147-151 Mr '65.

(MIRA 18:6)

1. Belorusskiy gosudarstvennyy universitet imeni Lenina.

31(3)
AUTHOR:

Lobko, V.F.

SOV/21-59-2-7/26

TITLE: An Inductive Device for Measuring Variable Pressures
(Induktivnyy pribor dlya izmereniya peremennykh
davleniy)

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 2,
pp 137-142 (USSR)

ABSTRACT: The author describes the device constructed by him
in 1957 for measuring variable pressures of water on
the casing of ship's screw transmission (important
to know, if the ship must navigate through a narrow
fairway). The device can also be used for measuring
water pressures on other sections of a ship. The
device consists of four principal components: a trans-
mitter, electric bridge circuits with rectifiers and
filters, feed and indicators. Every transmitter has
two inductive coils with permalloy cores (with 7% Ni
and 3.8% Cr). Every coil has 1,600 loops of DEL-0.2
wire. Coil induction is 0.4 gn, total resistance 0.4
ohm, ohmic resistance 77 ohm. The output transformer
is assembled on Sh-19 iron. Its first winding (") has

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SOV/21-59-2-7/26

An Inductive Device for Measuring Variable Pressures

600 loops of DEL-0.25 wire, the second has 1,500 loops of DEL-0.31-0.41 wire. The 15 v phase transformer is assembled on Sn-16 iron. The set is 16 mm thick. Its first winding has 300 loops, while the second winding has 200 loops of DEL-0.25-0.31 wires. The rectifier consists of four DG-Ts24 diodes. The electric filter is made of a 10 gn, 82 ohm choke and two electrolytic capacitors of 20 v, 200 mcf. The device is fed with 127-220 v, a.c. of 50 gts frequency. Regulation of voltage is done by an auto transformer LATR-1, the lowering of voltage by two other transformers. The control of voltage is done by an astatic voltmeter of AEM type. The voltage stabilizer is of SN-350 type. The article contains some more structural details of the device, as well as a general description of its regulation and functioning. There are 2

Card 2/3

SV/21-50-2-7/26

An Inductive Device for Measuring Variable Pressures

photographs, 1 scheme, 1 graph, and 4 Soviet references.

ASSOCIATION: Institut hidrologii i hidrotekhniki AN UkrSSR (Institute of Hydrology and Hydrotechnics of the AS UkrSSR)

PRESENTED: By G.Y. Sukhomel, Member of the AS Ukr SSR

SUBMITTED: October 27, 1958

Card 3/3

LOBKO, V.F.

Valuable work ("Four-terminal networks" by I.U.T. Velychko. Reviewed
by V.F. Lobko. Visnyk AN URSR 30 no.7:72-73 Jl '59.
(MIRA 12:10)

1. Starshiy radicinzhener Instituta gidrologii i gidrotehniki AN
USSR.
(Electric networks) (Velychko, I.U.T.)

LOBKO, V.F.; DUDCHENKO, O.G. [Dudchenko, O.H.]

Electric wavegraph and its use in research under laboratory and natural conditions. Dop. AN URSR no.4:456-461 '60. (MIRA 13:7)

1. Institut gidrologii i hidrotekhniki AN USSR. Predstavлено akademikom AN USSR G.I. Sukhomelom [G.I. Sukhomelom].
(Waves)

LOBKO, V.F.

New electrohydrometering devices. Avtom.i prib. no.4:65-68 O&D
'62. (MIRA 16,1)

1. Institut gidrologii i hidrotekhniki AN UkrSSR.
(Hydrometer)

BLINOV, B.V.; LOBKO, Ya.U.

Surgical treatment of osteoarticular tuberculosis. Ortrop.travm.
i protez. 21 no.3:41-44 Mr '60. (MIRA 14:3)

1. Iz Roven'kovskogo kostnotuberkuleznogo sanatoriya (glavnnyy
vrach - I.M.Starcha) i travmatologicheskogo otd. (zav. - Ya.U.
Lobko) Roven'kovskoy rayonnoy bol'nitsy.
(BONES—TUBERCULOSIS)

LOBKO-LOBANSKIY, M.I.

On the biology of *Hyrundapus caudacutus* Latham [with English summary in insert]. Zool. zhur. 35 no.10:1586-1587 O '56.
(MIRA 10:1)
(Sakhalin—Swifts)

LOBKO-LOBANOVSKIY, M.I.; ZHILIN, A.F.

Biology of the reproduction of Kamchatka stone capercaillie
Tetrao urogalloides kamtschaticus Kittliz. Ornitologija no.5:
164-165 '62. (MIRA 16:2)
(Kamchatka Valley--Capercaillie)

LOBKOV, A., arkitektor

Exterior finish of walls made of local materials. Sil'.
bud. 11 no.5:17 My '61. (MIRA 14:6)
(Ukraine--Building materials)
(Walls)

LOBKOV, A., arkitektor

Highly compacted reed planks in housing construction. Zhil.stroi.
no.8:19-21 Ag '61. (MIRA 14:8)
(Kherson—Reed products) (Building blocks)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5

L. OV, a., Architektur, (lyev)

Low type of sections. Zil. str. no. 10:27 o '61.

(Apartment 10)

10:15)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5"

A
LOBKOV, S., arkitektor

Two-story apartment houses in villages of the southern
Ukraine. Sil'. bud. 11 no.8:16-18 Ag '61. (MIRA 14:9)
(Ukraine—Apartment houses)

BERNIKER, Yevgeniy Iosifovich, inzh.; LOBKOV, L.A., red.;
TELYASHOV, A.Kh., red.izd-va; GVIPTS, V.L., tekhn.red.

[Modern designs of press fittings; materials for designers
and engineers] Sovremennye konstruktsii i raschety posadok
i s garantirovannym natiagom; materialy dlia konstruktorov i
tekhnologov. Leningrad, 1963. 35 p. (Leningradskii Dom
nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom.
Serija: Mekhanicheskaiia obrabotka metallov, no.18)
(MIRA 17:3)

LOBKOV, A. M.

RA 29172

USER/Oil Storage
Tanks, Oil

Sep 1947

"Industrial Oil Collecting Centers and Their Opera-
tion," A. M. Lobkov, 32 pp

"Azerbaydzhanskoye Neftyanoye Khozyaystvo" No 9

Discussion of the routine and operation of equipment
of oil storage centers, where oil is collected and
let stand for a certain length of time for impurities
such as sand, etc., to settle out.

29172

LC

PA 9T83

LOBKOV, A. M.

USSR/Oil Industries
Oil production

May 1947

"Preparations and Prospective Planning of Construction in the Petroleum Industry," A. M. Lobkov (City of Baku), 3 pp

"Neftyanoye Khozyaystvo" Vol 25, No 5

Several variations of the general sketch are presented to the Ministry for the Petroleum Industry. The attempt is to simplify and accelerate the whole procedure.

9T83

LOBKOV, A. M., et al.

Technology

Production of petroleum and gas, Baku-L., Aznefteiziat, 1950.

Monthly List of Russian Accessions, Library of Congress, Oct. 1952, Unclassified

LOBKOV, Aleksey Mikhaylovich; MURAV'YEV, V.M., redaktor; KLEYMENOVA, K.F.,
redaktor; POLOSINA, A.S., tekhnicheskiy redaktor.

[Storage and transport of petroleum industries] Sbor i transport
nefti na promyslakh. Moskva, Gos.nauchno-tekh. izd-vo neftianoi
i gorno-toplivnoi lit-ry, 1955. 281 p. (MLRA 8:4)
(Petroleum)

Lobkov, A. M.

93-58-3-1/17

AUTHOR: Lobkov, A. M.

TITLE: Ways of Reducing the Construction Cost of Oilfield Facilities (Puti snizheniya stoinosti neftepromyslovogo stroitel'stva)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 3, pp 1-5 (USSR)

ABSTRACT: The author criticizes the article "Ways of Reducing the Construction Cost of Oilfield Facilities," published by M.G. Osipov and A.A. Kortatatsi in Neftyanoye khozyaystvo, 1957, Nr 8, for dwelling on the point that the most effective way of reducing the construction cost of surface plants, equipment, roads, and of other oilfield facilities is integration of the construction of the entire industrial complex for a single field, or for an oil region consisting of several fields. He is also criticized for failing to

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Ways of Reducing the Construction Cost of Oilfield (cont.) 93-58-3-1/17

emphasize the importance of early installation of surface oil-field facilities on which the efficiency of oil field development depends. The idea of planned and integrated construction of surface oilfield facilities is generally known and it has already been incorporated in the approved Provisional Specifications (Vremennyye pravila) [Ref 1], therefore, the author extends his criticism mainly to the failure of the present system to provide for a suitable sequence in the various oil-field operations. He states that the experience of many years shows that the general plans of oilfield construction do not fulfill their function since they cannot be developed in time for integration with other activities. The result is that surface oilfield facilities are constructed simultaneously and sometimes ahead of the development of the general plan, and, as a rule, do not embody the decisions which might have been included in the general plan. In order to increase return on the capital investment in oilfield construction, the present system of oilfield planning and construction [Ref 1] must be replaced by the four-stage system proposed by the author, and in order to obtain early preliminary data for the oilfield development plan the present deep exploration system must be revised. There are 2 Soviet references.

AVAILABLE: Library of Congress
Card 2/2

LOBKOV, A.M.

Ways of eliminating gas losses in oil fields of the R.S.F.S.R.
Neft. khoz. 39 no.12:41-43 D '61. (MIRA 14:12)
(Gas, Natural)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930320018-5"

VERESHCHAGIN, A.N.; LOBKOV, A.M.; SHTANGEYEV, A.L.

Combined processing of crude oil and casing-head gases. Gaz.prom.
7 no.1:20-23 '62. (MIRA 15:1)
(Petroleum--Refining) (Gas, Natural)

SAYFEYEV, T.A.; LOBKOV, A.M.

Effect of surfactants on the formation and sedimentation of
hydrates. Gaz. delo no.4:9-13 '65. (MERA 18:6)

I. TSekh nauchno-issledovatel'skikh i proizvodstvennykh rabot
neftepromyslovogo upravleniya "Ishimbayneft" i Ufimskiy neftyanyoy
nauchno-issledovatel'skiy institut.

ZOROV, A.M.

Results of field investigations of the separation of gas from
Bashkirian petroleum in stages. Neft. khoz. 43 no.5*33-36
(MIRA 18:6)
May 1955.

L 36145-66 ENT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW/DJ
ACC NR: AP6016317 (N)

SOURCE CODE: UR/0182/66/000/001/0046/0047

10

31

C

AUTHOR: Lobkov, I. G.

ORG: none

TITLE: Hot forging of G13 manganese steel

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 1, 1966, 46-47

TOPIC TAGS: manganese steel, structural steel, drop forging, closed die forging,
hot forging, wear resistance / G13 manganese steel, 45 steel

ABSTRACT: G13 high-manganese steel is used to fabricate machinery parts and structural components operating under difficult conditions (dry friction, impact loads). A characteristic feature of this steel is that it gets markedly hardened by cold plastic deformation and as a result, displays an exceptionally high wear resistance -- 26 times as high as that of 45 steel -- under conditions of abrasion and heavy impact. In view of the difficulty of machining this steel, it was necessary to develop a method of fabricating tie plates of this steel without subsequent machining of small-diameter orifices and spherical surfaces. In this connection, the following method has been proposed: 1. An ingot measuring 72 mm in diameter and 300 mm in height is cast into a chill mold; 2. The ingot is drop-hammered in hot state and subsequently hot-forged in a closed die. This method is used to fabricate four components: two

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tie plates, the stud and the bushing (Figs. 1 and 2). The method involves heating

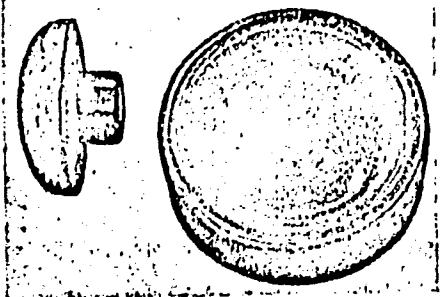


Fig. 1. Stud and bushing

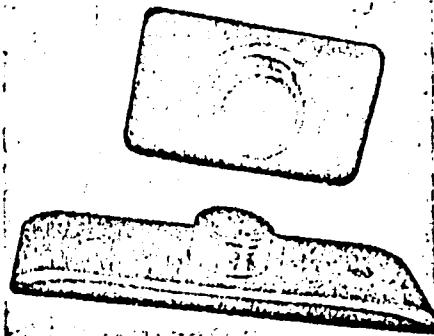


Fig. 2. Tie plates

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ACC NR: AP6016317

the ingots in lots of 15-20 to forging temperatures (1050°C) at the rate of 100-150°C in a furnace (this slow heating prevents the rise of internal cracks due to the low heat conduction and high coefficient of linear expansion of G13 steel). The ingot is then shaped into forging blanks by means of a steam-air hammer (weight of falling parts 1000 kg). The blanks are reheated in the furnace to the same temperatures and under the same conditions as the ingot and, after this, subjected to closed impression die forging. The orifices are pierced with the aid of a special die at 600-700°C in a model-K117Ye 100-ton cam press. This is followed by heat treatment of the forging by heating it to 1000-1100°C and quenching it in water. Comparison with cast die plates shows that the forged tie plates display higher mechanical properties (impact strength 26-30 kg-m/cm² for forged plates against 11-20 kg-m/cm² for cast plates; ultimate strength 40-45 80-90 kg/mm for forged plates against 34-60 kg/mm for cast plates). Their production cost also is lower. Orig. art. has: 2 figures, 1 table.

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